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Biaxial Testing

Description

Specially designed for the experimental determination of mechanical properties of materials, components or products subject to combined axial and torsional loading. Available with customized torsional moment, angle and frequency range upgrading your system from axial only to axial / torsional performance.

Features

- Double ended, equal area linear actuator with hydrostatic bearings for the best friction free static and dynamic performance, allows high side-loads and emergency running, integrated in the upper or lower crosshead to shorten the force train. With displacement transducer.
- Dynamic rated torsion drive closed coupled to the axial actuator.
- High precision angle transducer.
- One-chamber-design, High stiffness construction, precision aligned, inductive hardened, grounded and chromium plated columns.
- Servo-valve manifold platen mounted direct on the actuator for the highest possible response and most accurate test control.
- Close coupled accumulators to minimize hydraulic pressure fluctuations.
- High precision fatigue rated biaxial load cell for static and fatigue tests fixed on the upper crosshead, lower t-slot base platen or piston rod end for testing of components.